

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
	APPLICANT Yang et al.	
	FILING DATE March 2, 2004	GROUP 2664

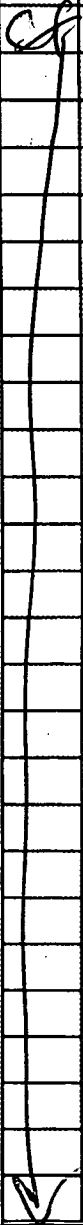
U.S. PATENT DOCUMENTS


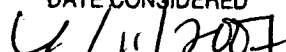
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<i>[initials]</i>	5,412,620	05/1995	Cafarella et al.			
<i>[initials]</i>	5,487,069	01/1996	O'Sullivan et al.			
<i>[initials]</i>	5,559,757	09/1996	Catipovic et al.			
<i>[initials]</i>	5,577,066	11/1996	Schuchman et al.			
<i>[initials]</i>	5,612,978	03/1997	Blanchard et al.			
<i>[initials]</i>	5,796,814	08/1998	Brajaj et al.			
<i>[initials]</i>	5,818,868	10/1998	Gaudenzi et al.			
<i>[initials]</i>	5,828,658	10/1998	Ottersten et al.			
<i>[initials]</i>	5,930,369	7/1999	Cox et al.			
<i>[initials]</i>	6,047,020	04/2000	Hottinen			
<i>[initials]</i>	6,097,753	08/2000	Ko			
<i>[initials]</i>	6,128,276	10/2000	Agee			
<i>[initials]</i>	6,137,848	10/2000	Chennakeshu et al.			
<i>[initials]</i>	6,141,393	10/2000	Thomas et al.			
<i>[initials]</i>	6,144,711	11/2000	Raleigh et al.			
<i>[initials]</i>	6,181,714B1	01/2001	Isaksson et al.			
<i>[initials]</i>	6,188,717 B1	02/2001	Kaiser et al.			
<i>[initials]</i>	6,289,005 B1	09/2001	Katz			
<i>[initials]</i>	6,321,066 B1	11/2001	Katz et al.			
<i>[initials]</i>	6,321,082 B1	11/2001	Katz			
<i>[initials]</i>	6,320,903 B1	11/2001	Isaksson et al.			
<i>[initials]</i>	6,359,926 B1	03/2002	Isaksson et al.			
<i>[initials]</i>	6,359,938 B1	03/2002	Keevill et al.			
<i>[initials]</i>	6,363,128 B1	03/2002	Isaksson et al.			
<i>[initials]</i>	6,366,554 B1	04/2002	Isaksson et al.			
<i>[initials]</i>	6,377,632 B1	04/2002	Paulraj et al.			

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 6/11/2007
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				FILING DATE March 2, 2004		GROUP 2664	

U.S. PATENT DOCUMENTS							
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	6,392,595 B1	05/2002	Katz et al.				
	6,396,801	05/2002	Upton et al.				
	6,438,174 B1	08/2002	Isaksson et al.				
	6,445,342 B1	09/2002	Thomas et al.				
	6,456,649 B1	09/2002	Isaksson et al.				
	6,466,629 B1	10/2002	Isaksson et al.				
	6,473,449 B1	10/2002	Cafarella et al.				
	6,473,453 B1	10/2002	Wilkinson				
	6,493,395 B1	12/2002	Isaksson et al.				
	6,505,053 B1	01/2003	Winters et al.				
	6,512,737 B1	01/2003	Agee				
	6,538,986 B2	03/2003	Isaksson et al.				
	6,553,012 B1	04/2003	Katz				
	6,611,855 B1	08/2003	Hellberg et al.				
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	6,658,619 B1	12/2003	Chen				
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	6,662,024 B2	12/2003	Walton et al.				
	6,671,334 B1	12/2003	Kuntz et al.				
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	6,724,743 B1	04/2004	Pigeonnat				
	6,729,929 B1	05/2004	Sayers et al.				
	6,744,320 B2	06/2004	Nguyen et al.				
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EXAMINER 	DATE CONSIDERED 
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				FILING DATE March 2, 2004		GROUP Not Yet Known	
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CA	6,757,321 B2	09/2004	Pan et al.				
	6,760,388 B2	07/2004	Ketchum et al.				
	2001/0055319 A1	12/2001	Quigley et al.				
	2001/0049295 a1	12/2001	Matsuoka et al.				
	2001/0033614 A1	10/2001	Hudson				
	2002/0034191 A1	3/2002	Shattil				
	2002/0097784 A1	07/2002	Brunel et al.				
	2002/0118765 A1	08/2002	Nangia et al.				
	2002/0119803 A1	08/2002	Bitterlich et al.				
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	2002/0122406 A1	09/2002	Chillariga et al.				
	2002/0126741 A1	09/2002	Baum et al.				
	2002/0126768 A1	09/2002	Isaksson et al.				
	2002/0159415 A1	10/2002	Pan et al.				
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	2002/0159537 A1	10/2002	Crilly, Jr.				
	2002/0186715 A1	12/2002	Mestdagh				
	2003/0003880 A1	01/2003	Ling et al.				
	2003/0004697 A1	01/2003	Ferris				
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EXAMINER 				DATE CONSIDERED 02/11/2007			


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			FILING DATE March 2, 2004		GROUP 2664	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2003/0035491 A1	02/2003	Walton et al.			
	2003/0043732 A1	03/2003	Walton et al.			
	2003/0043767 A1	03/2003	Pan et al.			
	2003/0043887 A1	03/2003	Hudson			
	2003/0043925 A1	03/2003	Stopler et al.			
	2003/0048856 A1	03/2003	Ketchum et al.			
	2003/0058952 A1	03/2003	Webster et al.			
	2003/0063557 A1	04/2003	Mottier			
	2003/0072291 A1	04/2003	Brunel			
	2003/0076908 A1	04/2003	Huang et al.			
	2003/0076900 A1	04/2003	Magee et al.			
	2003/0081781 A1	05/2003	Jensen et al.			
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	2003/0133403 A1	07/2003	Castelain et al.			
	2003/0147655 A1	08/2003	Shattil			
	2003/015021 A1	08/2003	Wang et al.			
2003/0165131 A1	09/2003	Liang et al.				
2003/0185310 A1	10/2003	Ketchum et al.				

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	2003/0215007 A1	11/2003	Mottier			
	2003/0216154 A1	11/2003	Mennenga et al.			
	2003/0227866 A1	12/2003	Yamaguchi			
	2003/0235255 A1	12/2003	Ketchum et al.			
	2004/0032354 A1	02/2004	Knobel et al.			
	2004/0032918 A1	2/2004	Shor et al.			
	2004/0052236 A1	03/2004	Hwang et al.			
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	2004/0116077 A1	06/2004	Lee et al.			
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	6,700,919 B1	03/2004	Papasakellarios			
	6,674,795 B1	01/2004	Liu et al.			
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EXAMINER 	DATE CONSIDERED Oct 11 2007
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		95/22859	08/1995	WO				
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		97/34421	09/1997	WO				
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		98/09395	03/1998	WO				
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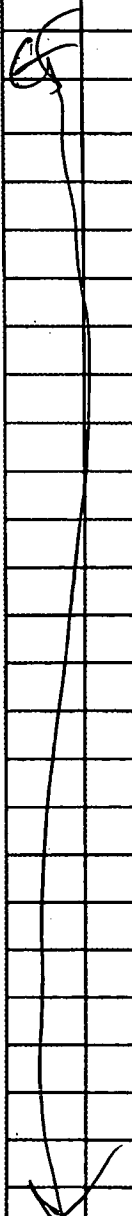
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		01/33791 A1	05/2001	WO				
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		1 255 387 A1	11/2002	EP				
		02/093779 A2	11/2002	WO				
		02/093784 A1	11/2002	WO				
		02/093819 A1	11/2002	WO				
		03/005291 A1	01/2003	WO				
		03/010898 A1	02/2003	WO				
		03/015292 A2	02/2003	WO				
		1 289 182 A2	03/2003	EP				
		03/026237 A2	03/2003	WO				
		03/028270 A1	04/2003	WO				
		1 300 999 A1	04/2003	EP				
		1 303 094 A2	04/2003	EP				
		03/044983 A2	05/2003	WO				
		03/081823 A1	10/2003	WO				
		03/084092 A2	10/2003	WO				
		1 357 693 A1	10/2003	EP				
		03/092212 A1	11/2003	WO				
		1 365 554 A1	11/2003	EP				
		2004/002047 A1	12/2003	WO				
		1 379 020 A1	01/2004	EP				
		2004/003743 A1	01/2004	WO				
		2004/008704 A1	01/2004	WO				
		2004/023704 A2	03/2004	WO				
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FOREIGN PATENT DOCUMENTS

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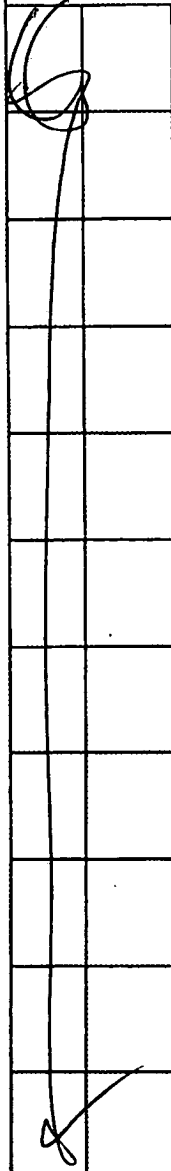
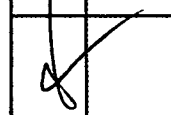
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<p>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</p>		
	<p>"Fast Algorithm for Solving Toeplitz Systems of Equations", IBM Technical Disclosure Bulletin, May 1980, US, Vol. 22 No. 12.</p>	
	<p>"Fast Algorithm for Solving Toeplitz Systems of Equations", IBM Technical Disclosure Bulletin, May 1980, US, Vol. 22. No. 12.</p>	
	<p>Vollmer et al., "Comparative Study of Joint-Detection Techniques for TD-CDMA Based Mobile Radio Systems", IEEE Journal on Selected Areas in Communications, Vol. 19, No. 8, August 2001, pp. 1461-1475.</p>	
	<p>Haykin, "Adaptive Filter Theory", Third Edition, Prentice Hall, 1996, pp. 87-93,</p>	



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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	Dent, U.S., 2003/0129984 A1, July 2003.	
	Castelain et al., U.S. 2003/0133403 A1, July 2003.	
	Shatili, U.S. 2003/0147655 A1, August 2003.	
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	Mottier, U.S. 2003/0215007 A1, November 2003.	
	Mennenga et al., U.S. 2003/0216154 A1, November 2003.	
	Yamaguchi, U.S. 2003/0227866 A1, December 2003.	
	Ketchum et al., U.S. 2003/0235255 A1, December 2003.	
	Knobel et al., U.S. 2004/0032354 A1, February 2004.	


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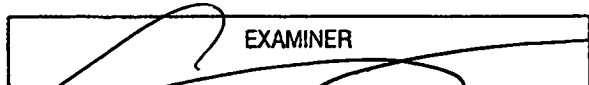
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	Shor et al., U.S. 2004/0032918 A1, February 2004.	
	Hwang et al., U.S. 2004/0052236 A1, March 2004.	
	Shattil, U.S. 2004/0086027 A1, May 2004.	
	Upton et al, U.S. 2004/0086035 A1, May 2004.	
	Sugar et al., U.S. 2004/0087275 A1, May 2004.	
	Agee et al, U.S. 2004/0095907 A1, May 2004.	
	Shattil, U.S. 2004/0100897 A1, May 2004.	
	Yang et al., U.S. 2004/0101046 A1, May 2004.	
	Lee et al., U.S. 2004/0116077 A1, June 2004.	
	Petre et al., U.S. 2004/0120274 A1, June 2004.	
	Roberts, U.S. 2004/0120424 A1, June 2004.	

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<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. I-2-0455.1US</p>	<p>SERIAL NO. 10/791,244</p>
	<p>APPLICANT Yang et al.</p>	
	<p>FILING DATE March 2, 2004</p>	<p>GROUP 2681</p>
<p>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</p>		
	<p>Roberts, U.S. 2004/0136399 A1, July 2004.</p>	
	<p>Shattil, U.S. 2004/0141548 A1, July 2004.</p>	
	<p>Roberts, U.S. 2004/0142663 A1, July 2004.</p>	
	<p>Li et al, U.S. 2004/0146024 A1, July 2004.</p>	

<p>EXAMINER</p> 	<p>DATE CONSIDERED</p> <p>6/14/2007</p>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
I-2-0455.1USSERIAL NO.
10/791,244APPLICANT
Yang et al.FILING DATE
March 2, 2004GROUP
Not Yet Known

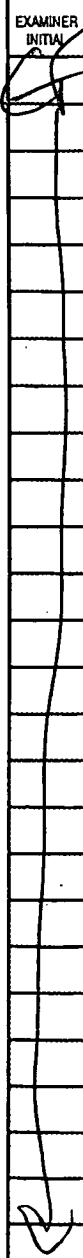
U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
C	5,412,620	05/1995	Cafarella et al.			
	5,487,069	01/1996	O'Sullivan et al.			
	5,559,757	09/1996	Catipovic et al.			
	5,577,066	11/1996	Schuchman et al.			
	5,612,978	03/1997	Blanchard et al.			
	5,796,814	08/1998	Brajaj et al.			
	5,818,868	10/1998	Gaudenzi et al.			
	5,828,658	10/1998	Ottersten et al.			
	5,930,369	7/1999	Cox et al.			
	6,047,020	04/2000	Hottinen			
	6,097,753	08/2000	Ko			
	6,128,276	10/2000	Agee			
	6,137,848	10/2000	Chennakeshu et al.			
	6,141,393	10/2000	Thomas et al.			
	6,144,711	11/2000	Rafeigh et al.			
	6,181,714B1	01/2001	Isaksson et al.			
	6,188,717 B1	02/2001	Kaiser et al.			
	6,289,005 B1	09/2001	Katz			
	6,321,066 B1	11/2001	Katz et al.			
	6,321,082 B1	11/2001	Katz			
	6,320,903 B1	11/2001	Isaksson et al.			
	6,359,926 B1	03/2002	Isaksson et al.			
	6,359,938 B1	03/2002	Keevill et al.			
	6,363,128 B1	03/2002	Isaksson et al.			
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	6,377,632 B1	04/2002	Paulraj et al.			

EXAMINER

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			APPLICANT Yang et al..			
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U.S. PATENT DOCUMENTS						
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	6,505,053 B1	01/2003	Winters et al.			
	6,512,737 B1	01/2003	Agee			
	6,538,986 B2	03/2003	Isaksson et al.			
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EXAMINER			DATE CONSIDERED 6/11/2007			

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				APPLICANT Yang et al.			
				FILING DATE March 2, 2004		GROUP Not Yet Known	

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	6,760,388 B2	07/2004	Ketchum et al.				
	2001/0055319 A1	12/2001	Quigley et al.				
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EXAMINER 	DATE CONSIDERED 02/11/2007
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10791,244
	APPLICANT Yang et al.	
	FILING DATE March 2, 2004	GROUP Not Yet Known

U.S. PATENT DOCUMENTS

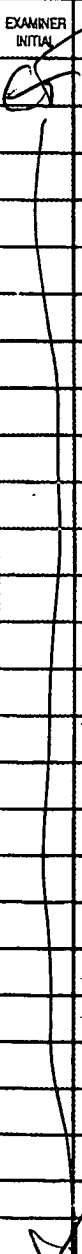
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	2003/0058952 A1	03/2003	Webster et al.			
	2003/0063557 A1	04/2003	Mottier			
	2003/0072291 A1	04/2003	Brunel			
	2003/0076908 A1	04/2003	Huang et al.			
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	2003/0165131 A1	09/2003	Liang et al.			
	2003/0185310 A1	10/2003	Ketchum et al.			

EXAMINER 	DATE CONSIDERED 06/14/2007
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	APPLICANT Yang et al.	
	FILING DATE March 2, 2004	GROUP Not Yet Known

U.S. PATENT DOCUMENTS

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	2003/0215007 A1	11/2003	Mottier			
	2003/0216154 A1	11/2003	Mennenga et al.			
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	2003/0235255 A1	12/2003	Ketchum et al.			
	2004/0032354 A1	02/2004	Knobel et al.			
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	6,219,561 B1	04/2001	Raleigh			
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EXAMINER 	DATE CONSIDERED 06/16/2007
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EXAMINER

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

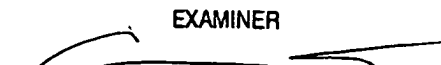
Sheet 7 of 11

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
		APPLICANT Yang et al.	
		FILING DATE March 2, 2004	GROUP Not Yet Known

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EXAMINER 	DATE CONSIDERED 4/6/2007
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. I-2-0455.1US		SERIAL NO. 10/791,244	
				APPLICANT Yang et al.			
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EXAMINER 				DATE CONSIDERED 6/1/2007			

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				FILING DATE March 2, 2004		GROUP Not Yet Known	

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		03/026237 A2	03/2003	WO				
		03/028270 A1	04/2003	WO				
		1 300 999 A1	04/2003	EP				
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		03/044983 A2	05/2003	WO				
		03/081823 A1	10/2003	WO				
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		2004/002047 A1	12/2003	WO				
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EXAMINER	DATE CONSIDERED 6/16/2007
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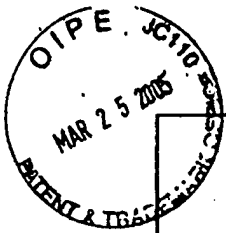
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	"Fast Algorithm for Solving Toeplitz Systems of Equations", IBM Technical Disclosure Bulletin, May 1980, US, Vol. 22 No. 12.	
	"Fast Algorithm for Solving Toeplitz Systems of Equations" IBM Technical Disclosure Bulletin, May 1980, US, Vol 22. No. 12.	

EXAMINER 	DATE CONSIDERED 6.10.2007
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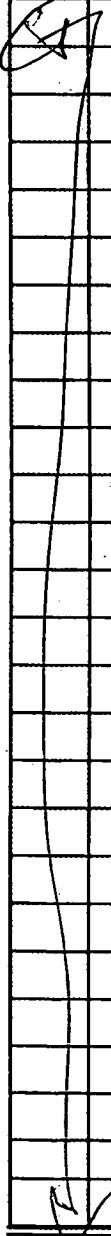


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	6,456,649 B1	09/2002	Isaksson et al.				
	6,466,629 B1	10/2002	Isaksson et al.				
	6,473,449 B1	10/2002	Cafarella et al.				
	6,473,453 B1	10/2002	Wilkinson				
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	6,553,012 B1	04/2003	Katz				
	6,611,855 B1	08/2003	Heilberg et al.				
	6,618,431 B1	09/2003	Lee				
	6,643,526 B1	11/2003	Katz				
	6,658,619 B1	12/2003	Chen				
	6,680,969 B1	01/2004	Molnar et al.				
	6,662,024 B2	12/2003	Walton et al.				
	6,671,334 B1	12/2003	Kuntz et al.				
	6,684,065 B2	01/2004	Bult et al.				
	6,693,953 B2	02/2004	Cox et al.				
	6,724,743 B1	04/2004	Pigeonnat				
	6,729,929 B1	05/2004	Sayers et al.				
		6,744,320 B2	06/2004	Nguyen et al.			
6,745,352 B2		06/2004	Cheng				
EXAMINER 			DATE CONSIDERED 06/11/2007				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			ATTY. DOCKET NO. I-2-0455.1US		SERIAL NO. 10/791,244		
			APPLICANT Yang et al.				
			FILING DATE March 2, 2004		GROUP Not Yet Known		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	6,757,321 B2	09/2004	Pan et al.				
	6,760,388 B2	07/2004	Ketchum et al.				
	2001/0055319 A1	12/2001	Quigley et al.				
	2001/0049295 a1	12/2001	Matsuoka et al.				
	2001/0033614 A1	10/2001	Hudson				
	2002/0034191 A1	3/2002	Shattil				
	2002/0097784 A1	07/2002	Brunel et al.				
	2002/0118765 A1	08/2002	Nangia et al.				
	2002/0119803 A1	08/2002	Bitterlich et al.				
	2002/0122465 A1	09/2002	Agee et al.				
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	2002/0126768 A1	09/2002	Isaksson et al.				
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	2002/0159537 A1	10/2002	Crilly, Jr.				
	2002/0186715 A1	12/2002	Mestdagh				
	2003/0003880 A1	01/2003	Ling et al.				
	2003/0004697 A1	01/2003	Ferris				
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	2003/0021237 A1	01/2003	Min et al.				
	2003/0021365 A1	01/2003	Min et al.				
	2003/0022651 A1	01/2003	Bannasch et al.				
	2003/0022680 A1	01/2003	Shreve				
	2003/0026201 A1	02/2003	Amesen				
	2003/0035392 A1	02/2003	Pan et al.				
	EXAMINER			DATE CONSIDERED			
							

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	FILING DATE March 2, 2004	GROUP Not Yet Known

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
X	2003/0035491 A1	02/2003	Walton et al.			
	2003/0043732 A1	03/2003	Walton et al.			
	2003/0043767 A1	03/2003	Pan et al.			
	2003/0043887 A1	03/2003	Hudson			
	2003/0043925 A1	03/2003	Stopler et al.			
	2003/0048856 A1	03/2003	Ketchum et al.			
	2003/0058952 A1	03/2003	Webster et al.			
	2003/0063557 A1	04/2003	Mottier			
	2003/0072291 A1	04/2003	Brunel			
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	2003/0133403 A1	07/2003	Castelain et al.			
	2003/0147655 A1	08/2003	Shattil			
	2003/015021 A1	08/2003	Wang et al.			
X	2003/0165131 A1	09/2003	Liang et al.			
	2003/0185310 A1	10/2003	Ketchum et al.			

EXAMINER	DATE CONSIDERED 6/11/2007
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	APPLICANT Yang et al.	
	FILING DATE March 2, 2004	GROUP Not Yet Known

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	2003/0216154 A1	11/2003	Mennenga et al.			
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	2003/0235255 A1	12/2003	Ketchum et al.			
	2004/0032354 A1	02/2004	Knobel et al.			
	2004/0032918 A1	2/2004	Shor et al.			
	2004/0052236 A1	03/2004	Hwang et al.			
	2004/0086027 A1	05/2004	Shattil			
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	2004/0136399 A1	07/2004	Roberts			
	2004/0141548 A1	07/2004	Shattil			
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*	6,219,561 B1	04/2001	Raleigh			
*	5,805,638 A	09/1998	Liew			
*	6,674,795 B1	01/2004	Liu et al.			
*	6,700,919 B1	03/2004	Papasakellarios			
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EXAMINER [Handwritten signature]	DATE CONSIDERED 06/11/2007
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FORM PTO-1449		ATTY. DOCKET NO. I-2-0455.1US		SERIAL NO. 10/791,244				
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Yang et al.						
		FILING DATE March 2, 2004		GROUP Not Yet Known				
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		95/27349	10/1995	WO				
		96/22638	07/1996	WO				
		0 766 468 A2	04/1997	EP				
		97/34421	09/1997	WO				
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		98/09395	03/1998	WO				
		98/10545	03/1998	WO				
		98/10549	03/1998	WO				
		98/10550	03/1998	WO				
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EXAMINER	DATE CONSIDERED 6/11/2007
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		1 063 780 A2	12/2000	EP				
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		01/33761 A1	05/2001	WO				
		01/33791 A1	05/2001	WO				
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		01/53932 A2	07/2001	WO				
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		01/54305 A1	07/2001	WO				
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		02/29977 A2	04/2002	WO				
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		02/054537 A1	07/2001	WO				
		02/061962 A1	08/2002	WO				
		02/067527 A2	08/2002	WO				
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		02/080483 A1	10/2002	WO				
		WO/082683 A2	10/2002	WO				
EXAMINER 				DATE CONSIDERED 6/11/2007				

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			APPLICANT Yang et al.			
			FILING DATE March 2, 2004		GROUP Not Yet Known	

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	03/005291 A1	01/2003	WO					
	03/010898 A1	02/2003	WO					
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	03/028270 A1	04/2003	WO					
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	1 357 693 A1	10/2003	EP					
	03/092212 A1	11/2003	WO					
	1 365 554 A1	11/2003	EP					
	2004/002047 A1	12/2003	WO					
1 379 020 A1	01/2004	EP						
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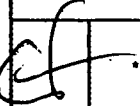
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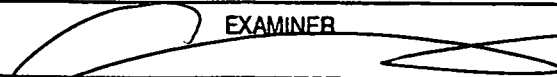
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FORM PTO-1449				ATTY. DOCKET NO. 1-2-0455.1US		SERIAL NO. 10/791,244	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Yang et al.			
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	1 411 693 A3	04/2004	EP				
	2004/036345 A2	04/2004	WO				
	2004/038984 A2	05/2004	WO				
	2004/059935 A1	07/2004	WO				
	2004/064298 A2	07/2004	WO				
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EXAMINER	DATE CONSIDERED
	6/14/2007

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<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. I-2-0455.1US</p>	<p>SERIAL NO. 10/791,244</p>
	<p>APPLICANT Yang et al.</p>	
	<p>FILING DATE March 2, 2004</p>	<p>GROUP Not Yet Known</p>
<p>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</p>		
		<p>"Fast Algorithm for Solving Toeplitz Systems of Equations", IBM Technical Disclosure Bulletin, May 1980, US, Vol. 22 No. 12.</p>

<p>EXAMINER</p> 	<p>DATE CONSIDERED</p> <p>6/6/2007</p>
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
I-2-0455.1USSERIAL NO.
10/791,244APPLICANT
Yang et al.FILING DATE
March 2, 2004GROUP
2681




U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
G	5,412,620	05/1995	Cafarella et al.			
	5,487,069	01/1996	O'Sullivan et al.			
	5,559,757	09/1996	Catipovic et al.			
	5,577,066	11/1996	Schuchman et al.			
	5,612,978	03/1997	Blanchard et al.			
	5,796,814	08/1998	Brajal et al.			
	5,818,868	10/1998	Gaudenzi et al.			
	5,828,658	10/1998	Ottersten et al.			
	5,930,369	7/1999	Cox et al.			
	6,047,020	04/2000	Hottinen			
	6,097,753	08/2000	Ko			
	6,128,276	10/2000	Agee			
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	6,181,714B1	01/2001	Isaksson et al.			
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	6,359,938 B1	03/2002	Keevill et al.			
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	6,366,554 B1	04/2002	Isaksson et al.			
	6,377,632 B1	04/2002	Paulraj et al.			

EXAMINER

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				APPLICANT Yang et al.			
				FILING DATE March 2, 2004		GROUP 2681	
U.S. PATENT DOCUMENTS							
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	6,392,595 B1	05/2002	Katz et al.				
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	6,456,649 B1	09/2002	Isaksson et al.				
	6,466,629 B1	10/2002	Isaksson et al.				
	6,473,449 B1	10/2002	Cafarella et al.				
	6,473,453 B1	10/2002	Wilkinson				
	6,493,395 B1	12/2002	Isaksson et al.				
	6,505,053 B1	01/2003	Winters et al.				
	6,512,737 B1	01/2003	Agee				
	6,538,986 B2	03/2003	Isaksson et al.				
	6,553,012 B1	04/2003	Katz				
	6,611,855 B1	08/2003	Helberg et al.				
	6,618,431 B1	09/2003	Lee				
	6,643,526 B1	11/2003	Katz				
	6,658,619 B1	12/2003	Chen				
	6,680,969 B1	01/2004	Molnar et al.				
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	6,671,334 B1	12/2003	Kuntz et al.				
6,684,065 B2	01/2004	Bult et al.					
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6,729,929 B1	05/2004	Sayers et al.					
6,744,320 B2	06/2004	Nguyen et al.					
6,745,352 B2	06/2004	Cheng					
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	0 766 468 A2	04/1997	EP					
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		1 017 183 A2	07/2000	EP				
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EXAMINER 				DATE CONSIDERED 6/16/2007				

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	APPLICANT Yang et al.	
	FILING DATE March 2, 2004	GROUP 2681

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*		1 255 387 A1	11/2002	EP				
*		02/093779 A2	11/2002	WO				
*		02/093784 A1	11/2002	WO				
*		02/093819 A1	11/2002	WO				
*		03/005291 A1	01/2003	WO				
*		03/010898 A1	02/2003	WO				
*		03/015292 A2	02/2003	WO				
*		1 289 182 A2	03/2003	EP				
*		03/026237 A2	03/2003	WO				
*		03/028270 A1	04/2003	WO				
*		1 300 999 A1	04/2003	EP				
*		1 303 094 A2	04/2003	EP				
*		03/044983 A2	05/2003	WO				
*		03/081823 A1	10/2003	WO				
*		03/084092 A2	10/2003	WO				
*		1 357 693 A1	10/2003	EP				
*		03/092212 A1	11/2003	WO				
*		1 365 554 A1	11/2003	EP				
*		2004/002047 A1	12/2003	WO				
*		1 379 020 A1	01/2004	EP				
*		2004/003743 A1	01/2004	WO				
*		2004/008704 A1	01/2004	WO				
*		2004/023704 A2	03/2004	WO				
*		2004/023704 A2	03/2004	WO				

EXAMINER 	DATE CONSIDERED 
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. 1-2-0455.1US	SERIAL NO. 10/791,244
		APPLICANT Yang et al.	
		FILING DATE March 2, 2004	GROUP 2681
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
5	*	Quigley et al., U.S. 2001/0055319 A1, December 2001.	
	*	Matsuoka et al., U.S. 2001/0049295 A1, December 2001.	
	*	Hudson, U.S. 2001/0033614 A1, October 2001.	
	*	Shattil, U.S. 2002/0034191 A1, March 2002.	
	*	Brunel, U.S. 2002/0097784 A1, July 2002.	
	*	Nangia et al., U.S. 2002/0118765 A1, August 2002.	
	*	Bitterlich et al., U.S. 2002/0119803 A1, August 2002.	
	*	Agee et al., U.S. 2002/0122465 A1, September 2002.	
	*	Chillariga et al., U.S. 2002/0122406 A1, September 2002.	
	*	Baum et al., U.S. 2002/0126741 A1, September 2002.	
4	*	Isaksson et al., U.S. 2002/0126768 A1, September 2002.	

EXAMINER 	DATE CONSIDERED 6/14/2007
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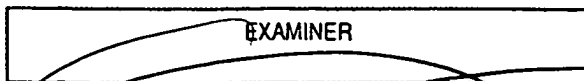

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
6	*	Pan et al., U.S. 2002/0159415 A1, October 2002.	
	*	Alamouti et al., U.S. 2002/0159506 A1, October 2002.	
	*	Crilly, Jr., U.S. 2002/0159537 A1, October 2002.	
	*	Mestdagh, U.S. 2002/0186715 A1, December 2002.	
	*	Ling et al., U.S. 2003/0003880 A1, January 2003.	
	*	Ferris, U.S. 2003/0004697 A1, January 2003.	
	*	Ferris, U.S. 2003/0008684 A1, January 2003.	
	*	Min et al., U.S. 2003/0021237 A1, January 2003.	
	*	Min et al., U.S. 2003/0021365 A1, January 2003.	
	*	Bannasch et al., U.S. 2003/0022651 A1, January 2003.	
	*	Shreve, U.S. 2003/0022680 A1, January 2003.	


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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
<i>CF</i>	*	Arnesen, U.S. 2003/0026201 A1, February 2003.	
	*	Pan et al., U.S. 2003/0035392 A1, February 2003.	
	*	Walton et al., U.S. 2003/0035491 A1, February 2003.	
	*	Walton et al., U.S. 2003/0043732 A1, March 2003.	
	*	Pan et al., U.S. 2003/0043767 A1, March 2003.	
	*	Hudson, U.S. 2003/0043887 A1, March 2003.	
	*	Stopler et al., U.S. 2003/0043925 A1, March 2003.	
	*	Ketchum et al., U.S. 2003/0048856 A1, March 2003.	
	*	Webster et al., U.S. 2003/0058952 A1, March 2003.	
	*	Mottier, U.S. 2003/0063557 A1, April 2003.	
<i>P</i>	*	Brunel, U.S. 2003/0072291 A1, April 2003.	

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	*	Huang et al., U.S. 2003/0076908 A1, April 2003.	
	*	Magee et al., U.S. 2003/0076900 A1, April 2003.	
	*	Jensen et al., U.S. 2003/0081781 A1, May 2003.	
	*	Branlund et al., U.S. 2003/0086366 A1, May 2003.	
	*	Nilsson et al., U.S. 2003/0099216 A1, May 2003.	
	*	Bjerke et al., U.S. 2003/0103584 A1, June 2003.	
	*	Ketchum et al., U.S. 2003/0108117 A1, June 2003.	
	*	Walton et al., U.S. 2003/0112880 A1, June 2003.	
	*	Agee, U.S. 2003/0123384 A1, July 2003.	
	*	Walton et al., U.S. 2003/0125040 A1, July 2003.	
	*	Walton et al., U.S. 2003/0128658 A1, July 2003.	


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	*	Dent, U.S., 2003/0129984 A1, July 2003.	
	*	Castelain et al., U.S. 2003/0133403 A1, July 2003.	
	*	Shattil, U.S. 2003/0147655 A1, August 2003.	
	*	Wang et al., U.S. 2003/015021 A1, August 2003.	
	*	Liang et al., U.S. 2003/0165131 A1, September 2003.	
	*	Ketchum et al., U.S. 2003/0185310 A1, October 2003.	
	*	Mottier, U.S. 2003/0215007 A1, November 2003.	
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	*	Ketchum et al., U.S. 2003/0235255 A1, December 2003.	
	*	Knobel et al., U.S. 2004/0032354 A1, February 2004.	





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		FILING DATE March 2, 2004	GROUP 2681
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	*	Shor et al., U.S. 2004/0032918 A1, February 2004.	
	*	Hwang et al., U.S. 2004/0052236 A1, March 2004.	
	*	Shattil, U.S. 2004/0086027 A1, May 2004.	
	*	Upton et al, U.S. 2004/0086035 A1, May 2004.	
	*	Sugar et al., U.S. 2004/0087275 A1, May 2004.	
	*	Agee et al, U.S. 2004/0095907 A1, May 2004.	
	*	Shattil, U.S. 2004/0100897 A1, May 2004.	
	*	Yang et al., U.S. 2004/0101046 A1, May 2004.	
	*	Lee et al., U.S. 2004/0116077 A1, June 2004.	
	*	Petre et al., U.S. 2004/0120274 A1, June 2004.	
	*	Roberts, U.S. 2004/0120424 A1, June 2004.	

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		APPLICANT Yang et al.	
		FILING DATE March 2, 2004	GROUP 2681
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	*	Roberts, U.S. 2004/0136399 A1, July 2004.	
	*	Shattil, U.S. 2004/0141548 A1, July 2004.	
	*	Roberts, U.S. 2004/0142663 A1, July 2004.	
	*	Li et al, U.S. 2004/0146024 A1, July 2004.	

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.
I-2-0455.1USSERIAL NO.
10/791,244APPLICANT
Yang et al.FILING DATE
March 2, 2004GROUP
2681

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,412,620	05/1995	Cafarella et al.			
	5,487,069	01/1996	O'Sullivan et al.			
	5,559,757	09/1996	Catipovic et al.			
	5,577,066	11/1996	Schuchman et al.			
	5,612,978	03/1997	Blanchard et al.			
	5,796,814	08/1998	Brajal et al.			
	5,818,868	10/1998	Gaudenzi et al.			
	5,828,658	10/1998	Ottersten et al.			
	5,930,369	7/1999	Cox et al.			
	6,047,020	04/2000	Hottinen			
	6,097,753	08/2000	Ko			
	6,128,276	10/2000	Agee			
	6,137,848	10/2000	Chennakeshu et al.			
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EXAMINER

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Yang et al.			
				FILING DATE March 2, 2004		GROUP 2681	
U.S. PATENT DOCUMENTS							
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		6,392,595 B1	05/2002	Katz et al.			
		6,396,801	05/2002	Upton et al.			
		6,438,174 B1	08/2002	Isaksson et al.			
		6,445,342 B1	09/2002	Thomas et al.			
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		6,473,449 B1	10/2002	Cafarella et al.			
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		6,493,395 B1	12/2002	Isaksson et al.			
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		6,512,737 B1	01/2003	Agee			
		6,538,986 B2	03/2003	Isaksson et al.			
		6,553,012 B1	04/2003	Katz			
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		6,658,619 B1	12/2003	Chen			
		6,680,969 B1	01/2004	Molnar et al.			
		6,662,024 B2	12/2003	Walton et al.			
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		6,724,743 B1	04/2004	Pigeonnat			
		6,729,929 B1	05/2004	Sayers et al.			
	6,744,320 B2	06/2004	Nguyen et al.				
	6,745,352 B2	06/2004	Cheng				
EXAMINER				DATE CONSIDERED 6/16/2007			

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				APPLICANT Yang et al.			
				FILING DATE March 2, 2004		GROUP 2681	

U.S. PATENT DOCUMENTS							
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	6,757,321 B2	09/2004	Pan et al.				
	6,760,388 B2	07/2004	Ketchum et al.				

FOREIGN PATENT DOCUMENTS							
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	0 766 468 A2	04/1997	EP				
	97/34421	09/1997	WO				
	97/35384	09/1997	WO				
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99/49602	09/1999	WO					

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	01/10065 A1	02/2001	WO				
	01/33761 A1	05/2001	WO				
	01/33791 A1	05/2001	WO				
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	01/54300 A2	07/2001	WO				
	01/54305 A1	07/2001	WO				
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	1 175 022 A2	01/2002	EP				
	02/29977 A2	04/2002	WO				
	02/054601 A1	07/2002	WO				
	02/054537 A1	07/2001	WO				
	02/061962 A1	08/2002	WO				
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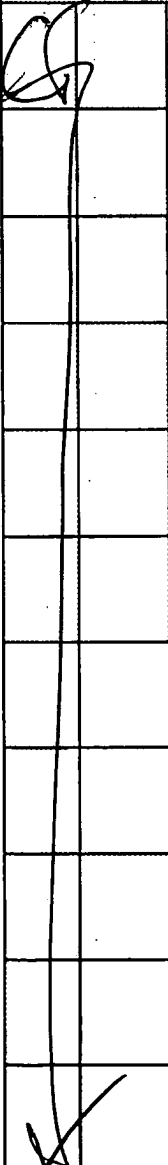

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		03/005291 A1	01/2003	WO				
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	Shattil, U.S. 2002/0034191 A1, March 2002.	
	Brunel, U.S. 2002/0097784 A1, July 2002.	
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	Bitterlich et al., U.S. 2002/0119803 A1, August 2002.	
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	Chillariga et al., U.S. 2002/0122406 A1, September 2002.	
	Baum et al., U.S. 2002/0126741 A1, September 2002.	
	Isaksson et al., U.S. 2002/0126768 A1, September 2002.	

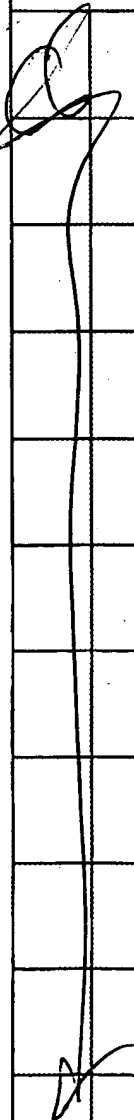

EXAMINER 	DATE CONSIDERED 6/11/2007
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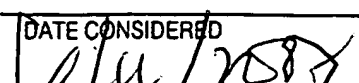
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		Pan et al., U.S. 2002/0159415 A1, October 2002.
		Alamouti et al., U.S. 2002/0159506 A1, October 2002.
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		Ferris, U.S. 2003/0004697 A1, January 2003.
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		Bannasch et al., U.S. 2003/0022651 A1, January 2003.
		Shreve, U.S. 2003/0022680 A1, January 2003.

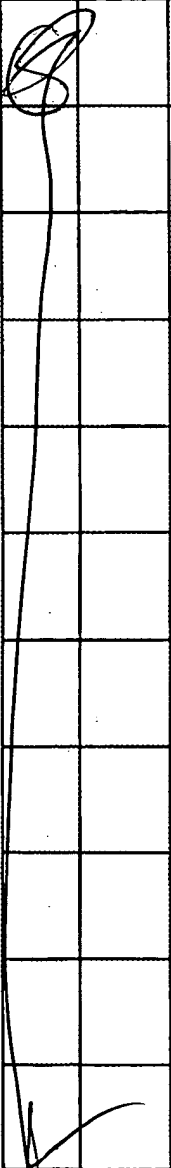
EXAMINER 	DATE CONSIDERED 6/14/2004
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. I-2-0455.1US	SERIAL NO. 10/791,244
	APPLICANT Yang et al.	
	FILING DATE March 2, 2004	GROUP 2681
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	Amesen, U.S. 2003/0026201 A1, February 2003.	
	Pan et al., U.S. 2003/0035392 A1, February 2003.	
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	Mottier, U.S. 2003/0063557 A1, April 2003.	
	Brunel, U.S. 2003/0072291 A1, April 2003.	

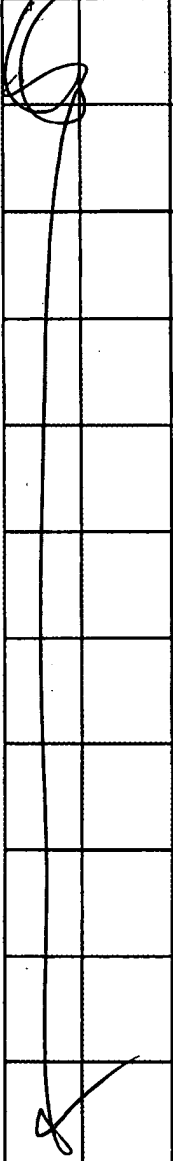
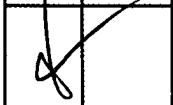
EXAMINER 	DATE CONSIDERED 
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	Huang et al., U.S. 2003/0076908 A1, April 2003.	
	Magee et al., U.S. 2003/0076900 A1, April 2003.	
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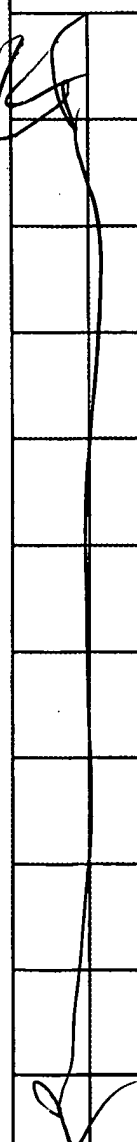
EXAMINER 	DATE CONSIDERED 6/16/2003
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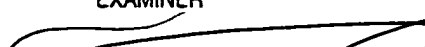
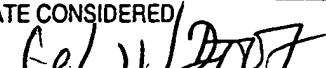
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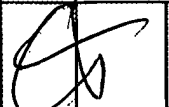
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